

isc N-Channel MOSFET Transistor

2SK538

DESCRIPTION

- Drain Current –I_D=3A@ T_C=25 °C
- · Drain Source Voltage-
 - : V_{DSS}=900V(Min)
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

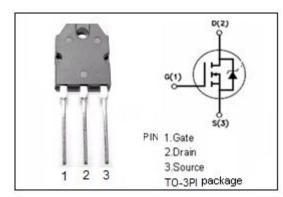


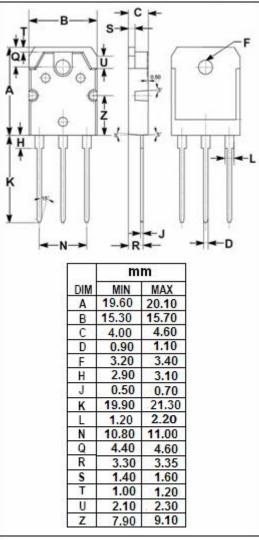
APPLICATIONS

 Designed especially for high voltage, high speed applications, such as off-line switching power supplies, UPS,AC and DC motor controls, relay and solenoid drivers.



SYMBOL	ARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	900	٧
V _{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-continuous@ TC=25℃	3	Α
P _{tot}	Total Dissipation@TC=25℃	100	W
T _j	Max. Operating Junction Temperature	150	$^{\circ}$ C
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$







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• ELECTRICAL CHARACTERISTICS (T_C=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} =0; I _D = 10mA	900			V
$V_{GS(TH)}$	Gate Threshold Voltage	V _{DS} = 10V; I _D = 1mA	1.5		3.5	V
R _{DS(ON)}	Drain-Source On-stage Resistance	V _{GS} = 10V; I _D =1.5A			4.5	Ω
lgss	Gate Source Leakage Current	V _{GS} = ±20V; V _{DS} = 0			±100	nA
Ipss	Zero Gate Voltage Drain Current	V _{DS} =900V; V _{GS} = 0			300	uA



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